## University of Minnesota

THE MEDICAL SCHOOL
MINNEAPOLIS 14

DEPARTMENT OF BACTERIOLOGY
AND IMMUNOLOGY

Broken

March 12, 1957

Dear Josh: I have intended to write you somer about the Hungarian article Horváth, J., Marion, M and Oroszlán, I. (1954) Vegetative Hybridi sationeveranche an Streptomyces. Acta Microbiologica Acad. Sci. Hungarical. II:21-37. The article apparently is based on the works of
Kalina (1952) which is in Russian. S. globosus is
used. Vecetative hybridisation mean transformation
alà Preumocacci but the paper does not support it.
In fact the title becomes Transformation attempts
if the Strestomn ces. II in the streptomyces, Howath loes quite a bit on the stability of the two strains - like much of the work in this country. The interesting parties that one strain is grown in the filtrate of anothe strain ( the myceluin is ground with sand and steilized by filtration); after a dozen passages, the original strain changes. Its signent, antibiotic and other changes to become know that like that of the strain yielding the tiltate kence transformation I need not discuss the afternatives with you - selection, adystation and contamination. There may be some transformation but there is notamploidence strong & presented.

The "transformed" strain is then quite stable - ruling out adaptation. The statement is made that the transformation goes rapidly on ce started i.e. in the 11th passage the streptomy cete is like its ancestor but in the 12th passage in the filtrate, the streptomycale converts immediately to the new type and is stable. Unquestionally this is inferesting but in this paper was carried no further. Howath wrote for a reprint recently so of intend to write him about any current works or extensions of this publication. Evenything progresses normally here. With spring approaching we are beginning to think about some tree planting (everyteens), fast fall we planted some deciduous trees. I hopse they survived the winter, Bestwikes to you + yours. Saylen. We are all fine \_ except for an interledent of measles which John David, Phillip & Enelyment are only now recovering from Don had them first.
Lois seem to like the Twin City almost a much as Madrian,